

FIG. 1

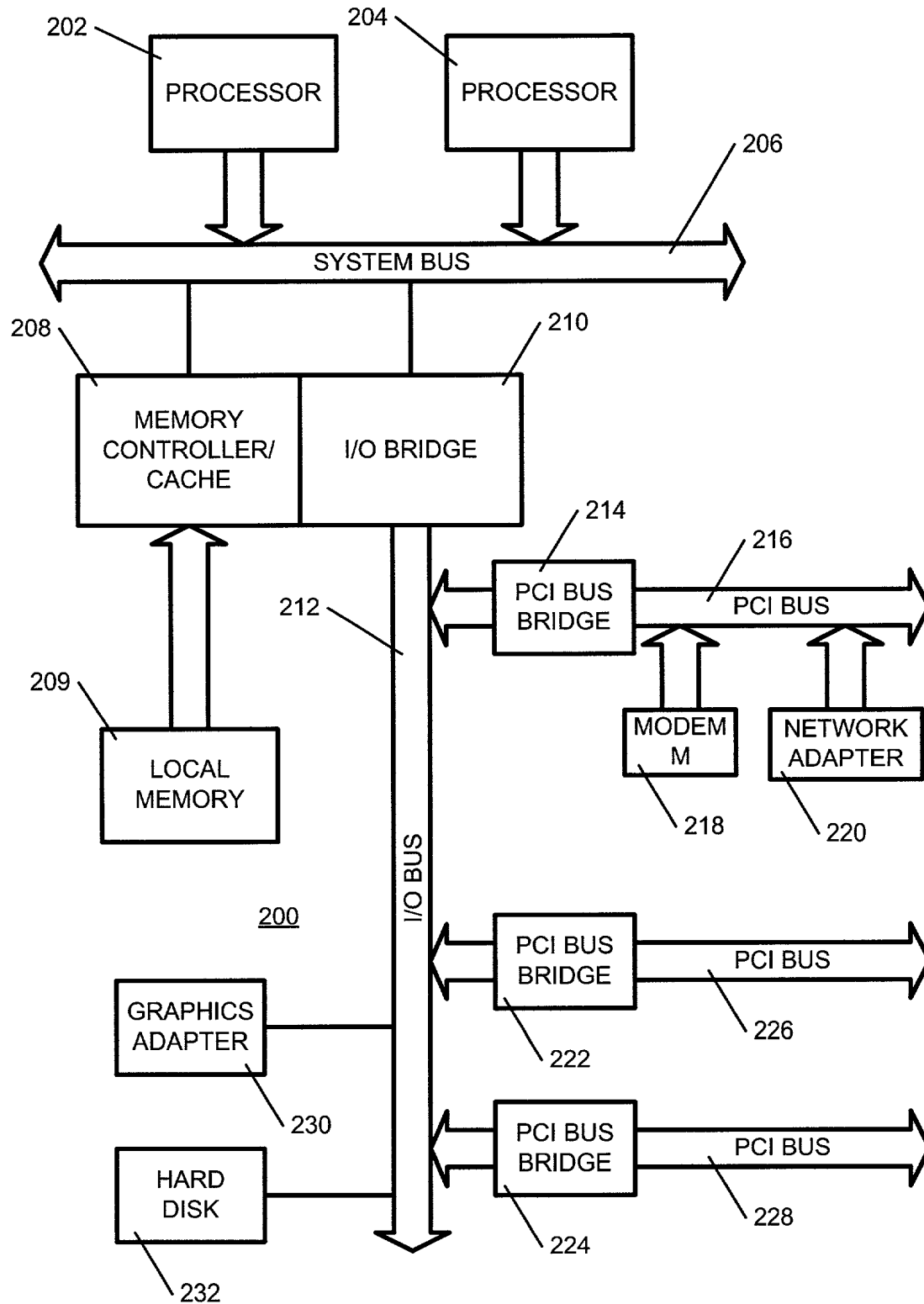


FIG. 2

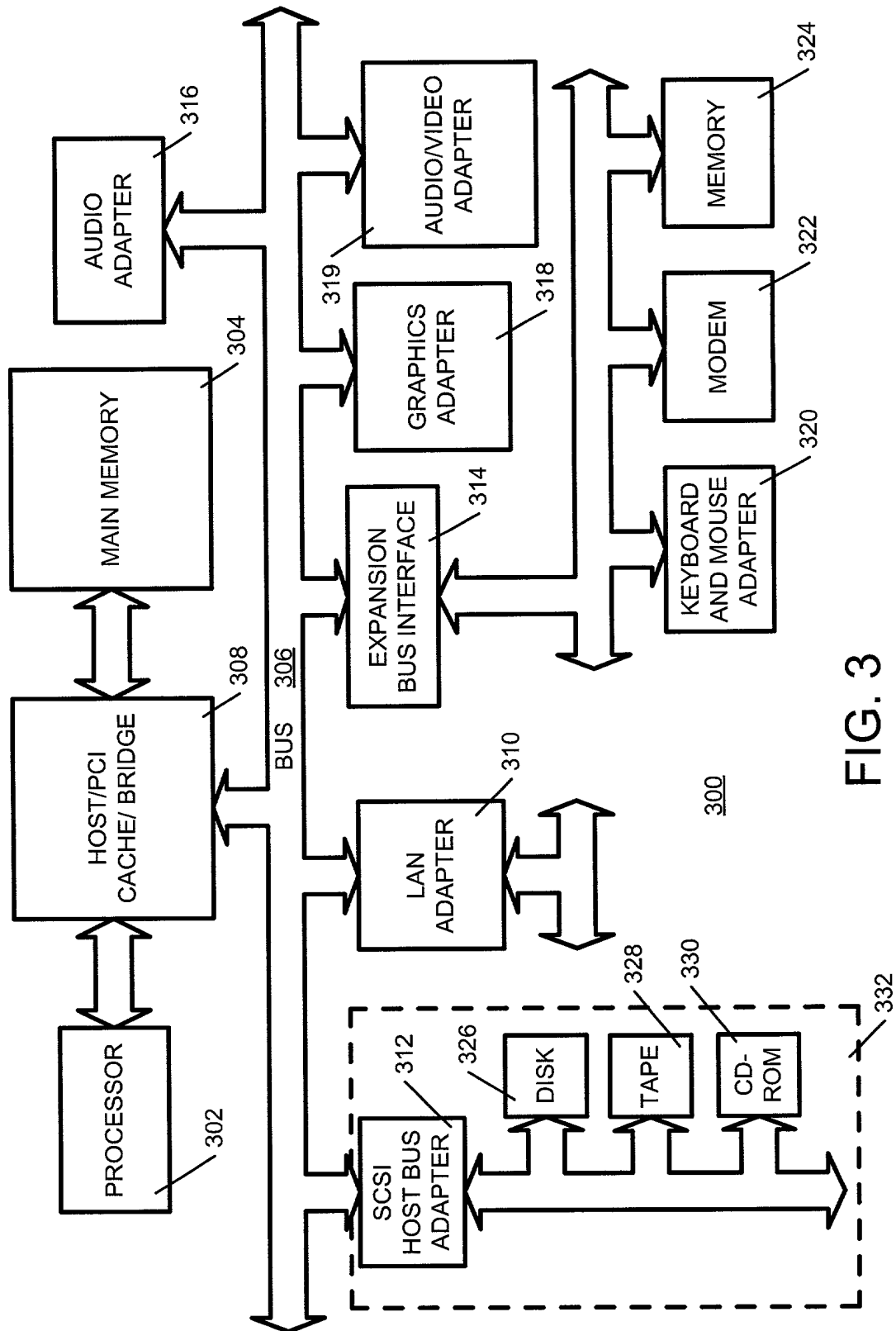


FIG. 3

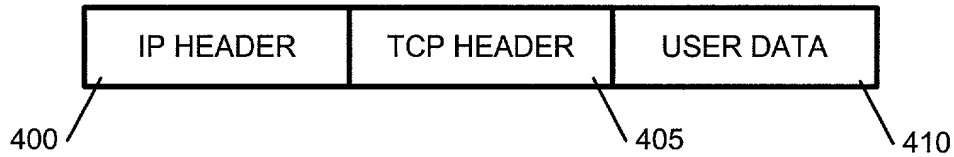


FIG. 4

BIT	0	1	2	3	4	5	6	7	
BYTE 0	SOURCE PORT NUMBER								500
BYTE 1									
BYTE 2	DESTINATION PORT NUMBER								505
BYTE 3									
BYTE 4	SEQUENCE NUMBER								510
BYTE 5									
BYTE 6									
BYTE 7									
BYTE 8	ACKNOWLEDGEMENT NUMBER								515
BYTE 9									
BYTE 10									
BYTE 11									
BYTE 12	520 HEADER LENGTH				530 535 540 545				
BYTE 13			URG	ACK	PSH	RST	SYN	FIN	
BYTE 14	525 WINDOW SIZE 550								555
BYTE 15									
BYTE 16	TCP CHECKSUM								560
BYTE 17									
BYTE 18	URGENT POINTER								565
BYTE 19									

FIG. 5

```
<?XML VERSION="1.0"?>
<COMPANY NAME="INFORMATION STRATEGIES">
  <EMPLOYEES>
    <EMPLOYEE ID="1">HANK AARON</EMPLOYEE>
    <EMPLOYEE ID="2">BABE RUTH</EMPLOYEE>
  </EMPLOYEES>
</COMPANY>
```

FIG. 6

```
<EMPLOYEE ID="3">MICKEY MANTLE</EMPLOYEE>
<EMPLOYEE ID="4">TY COBB</EMPLOYEE>
```

FIG. 7

```
<?XML VERSION="1.0"?>
  <IP_HEADER>
    <TCP_HEADER>
      <TCP_CONNECTION>
        <SYN_SENT>SEQUENCE#</SYN_SENT>
        <SYN_RECEIVED>SEQUENCE#</SYN_RECEIVED>
        <ACK_RECEIVED>ACK#</ACK_RECEIVED>
        <ACK_SENT>ACK#</ACK_SENT>
      </TCP_CONNECTION>
    </TCP_HEADER>
  </IP_HEADER>
```

FIG. 8

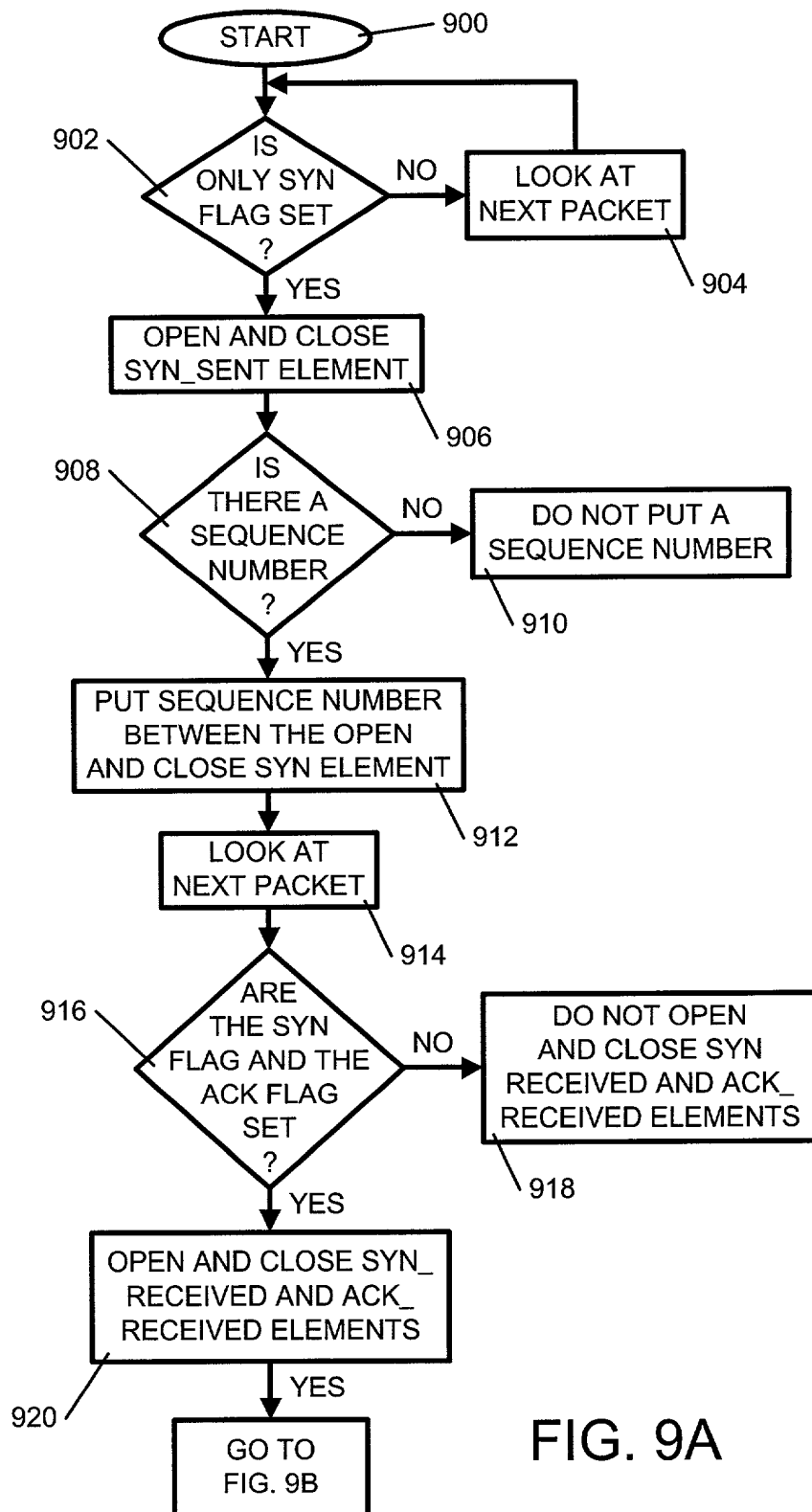


FIG. 9A

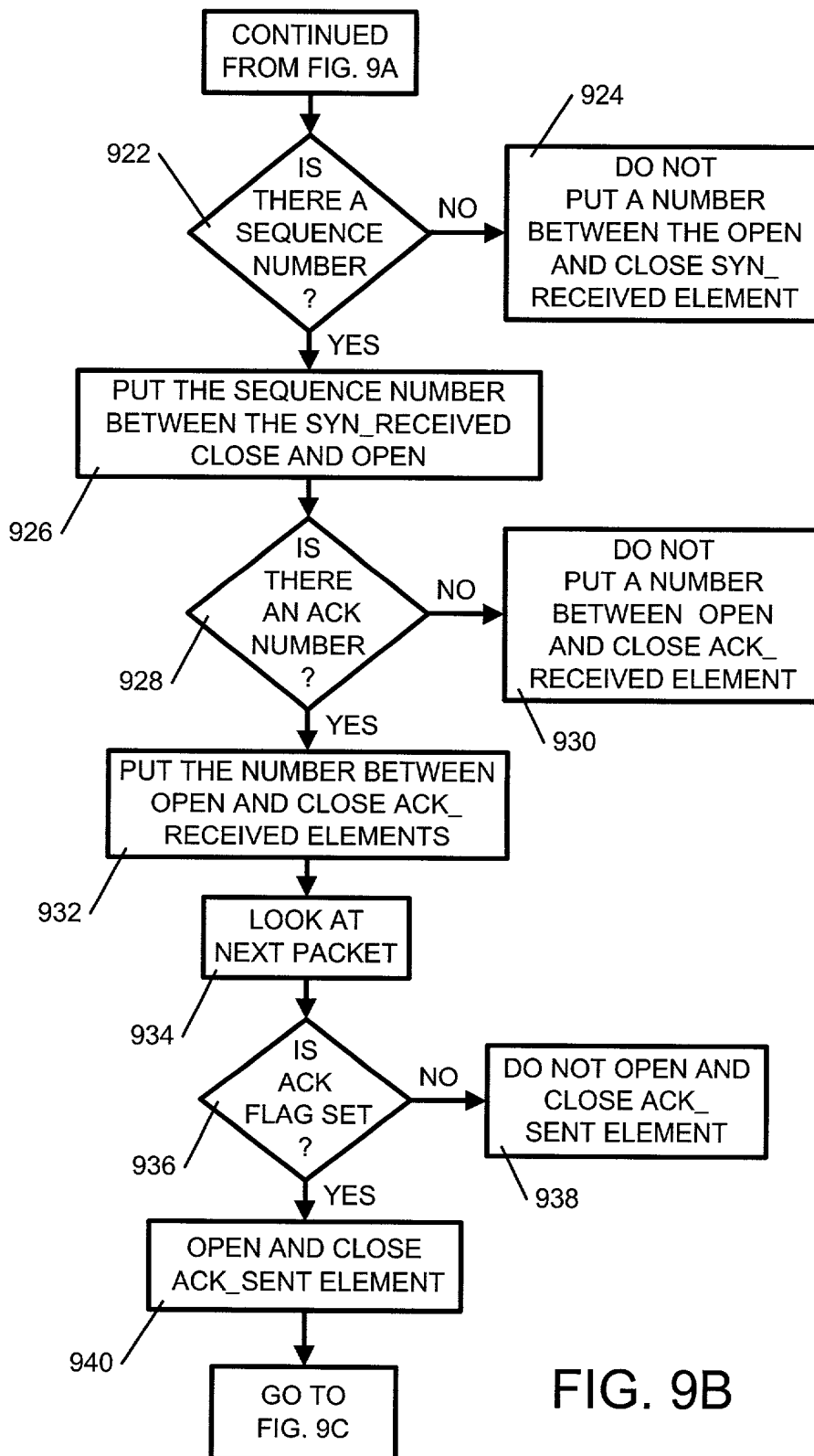


FIG. 9B

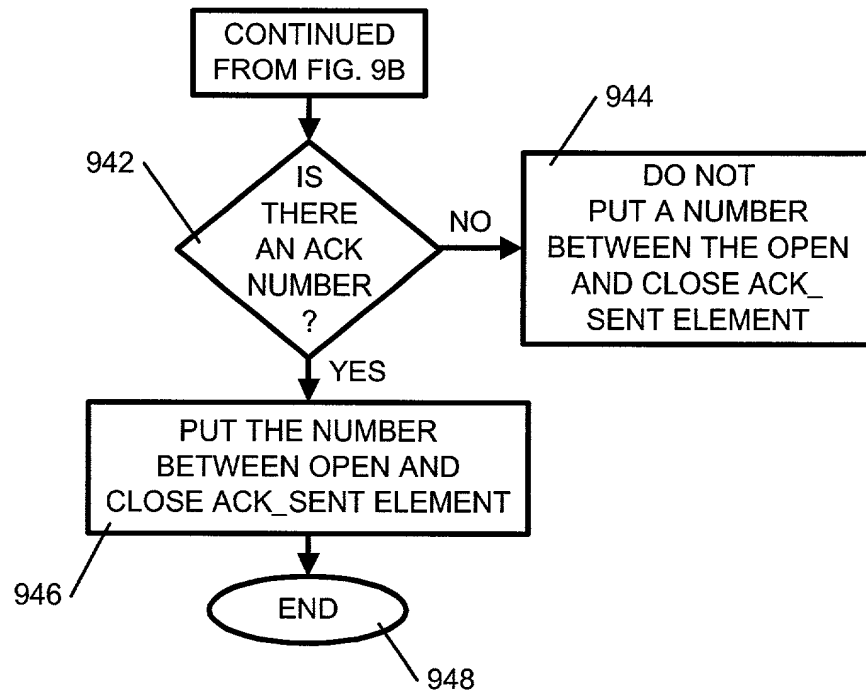


FIG. 9C

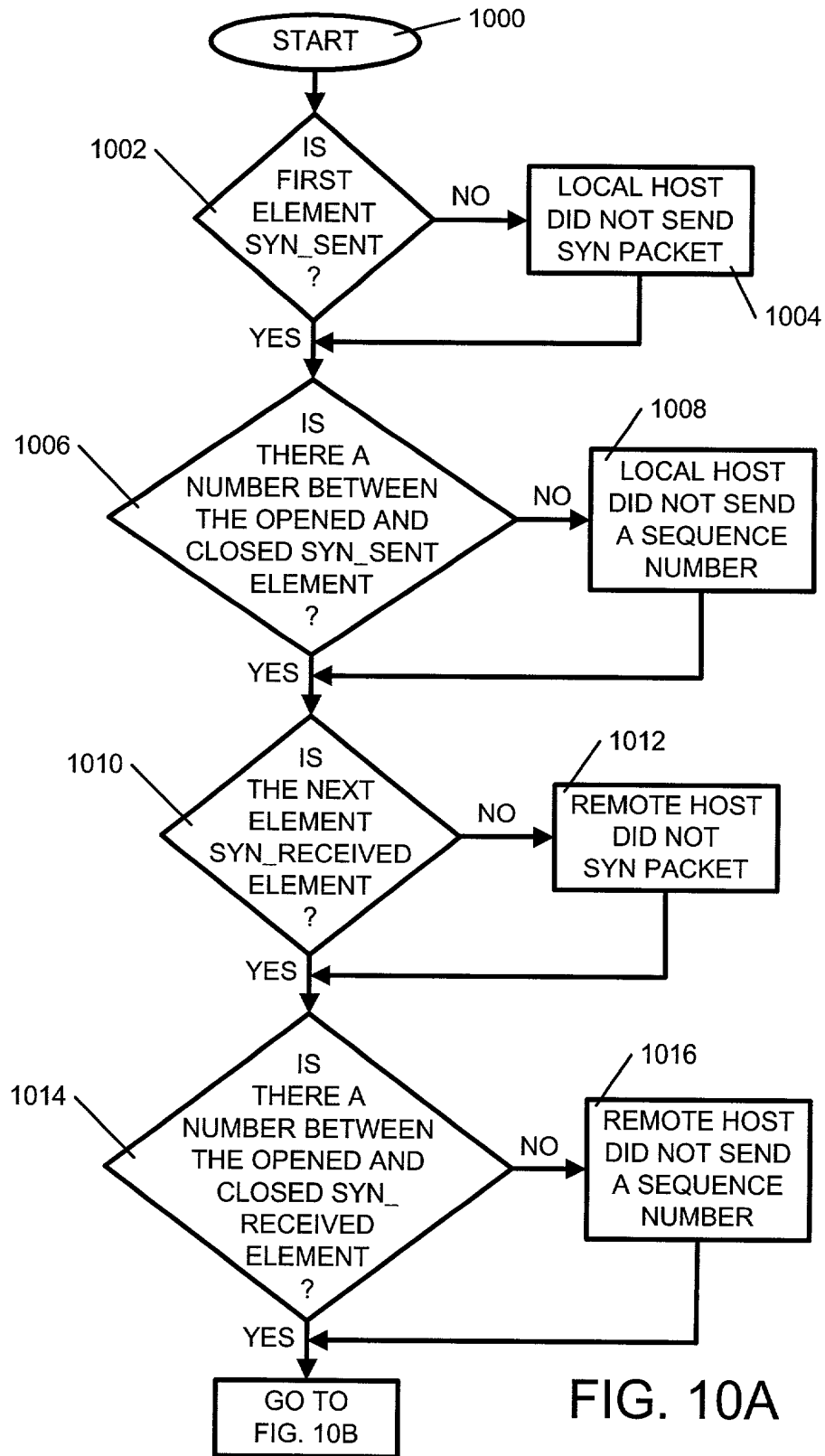
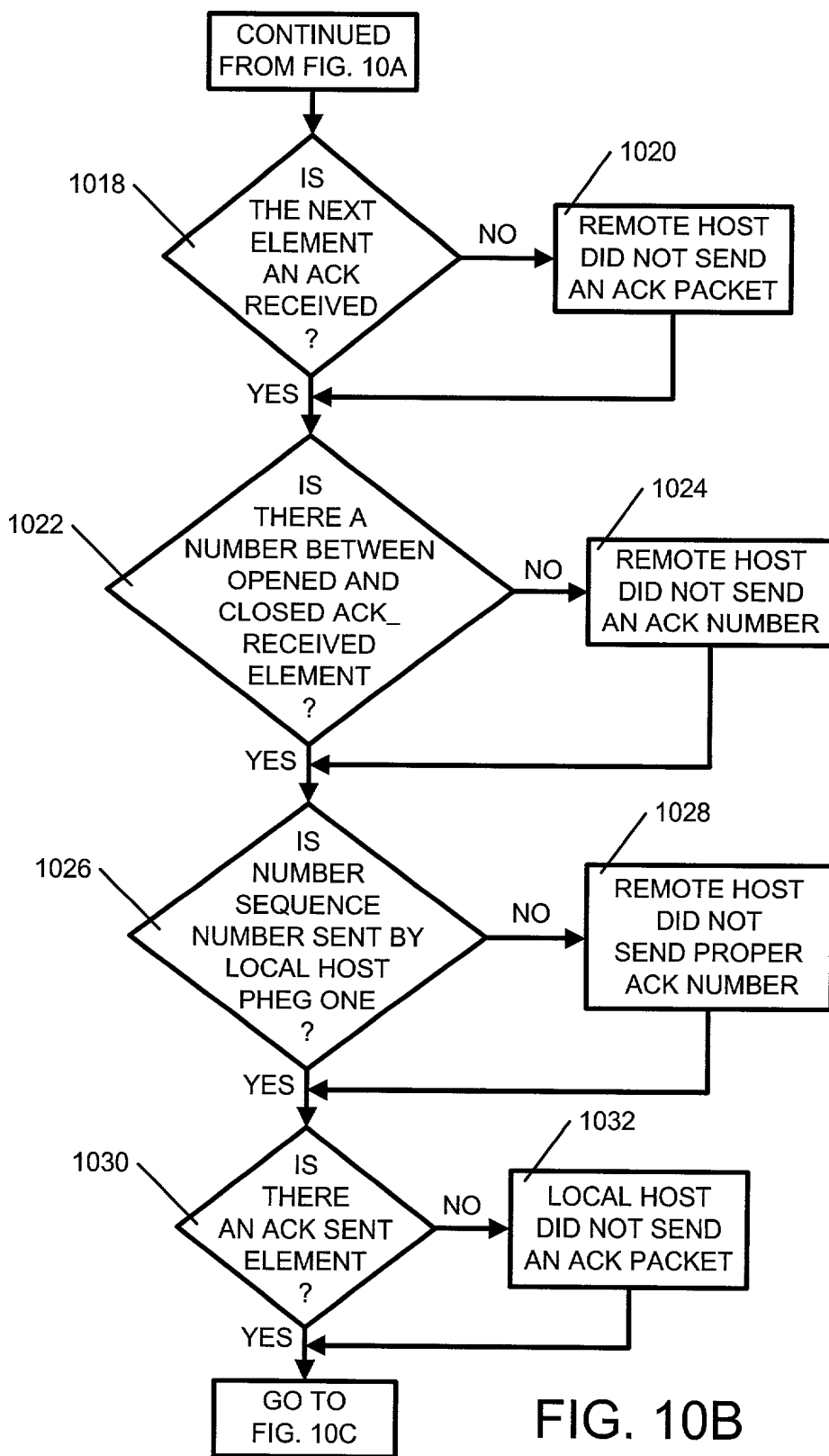


FIG. 10A



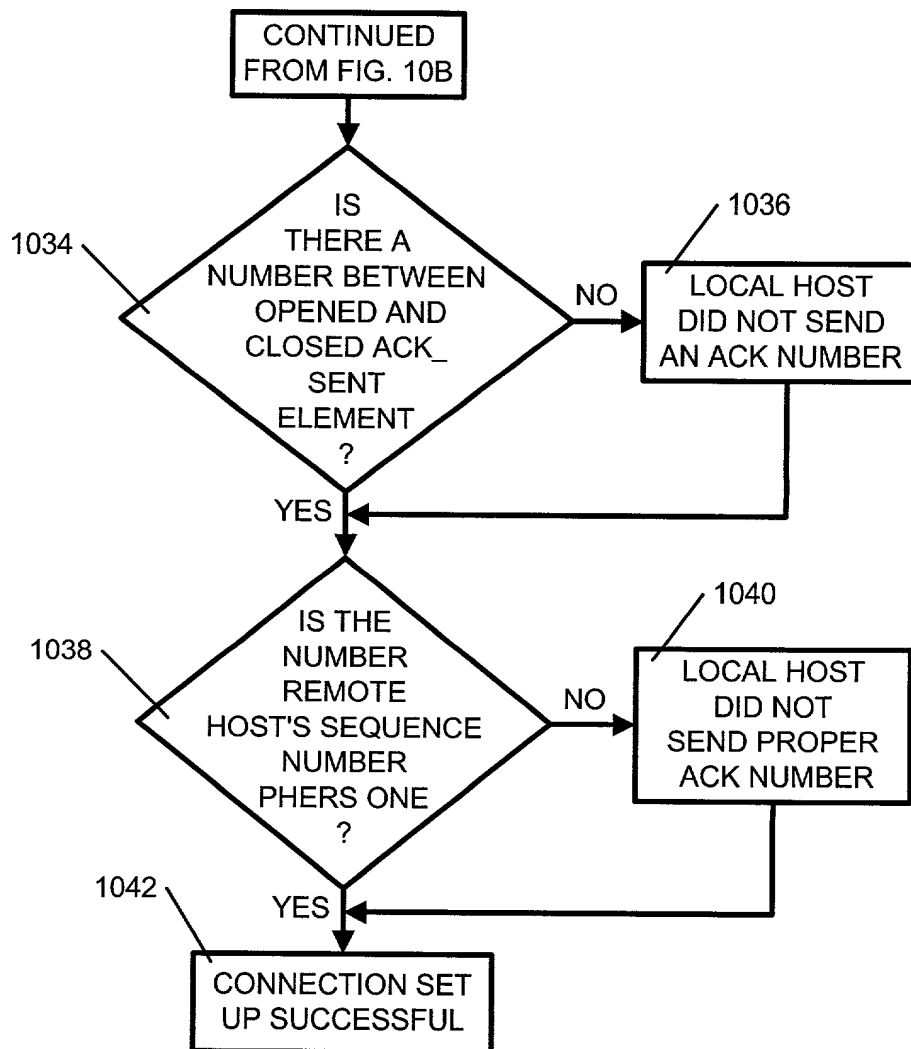


FIG. 10C

```
<?XML VERSION="1.0"?>
<XS:SCHEMA XMLNS:XS="HTTP://WWW.W3.ORG/2001/XMLSCHEMA"
  <XS:ELEMENT NAME="IP_HEADER">
    <XS:COMPLEXTYPE>
      <XS:SEQUENCE>
        <XS:ELEMENT NAME="TCP_HEADER">
          <XS:COMPLEXTYPE>
            <XS:SEQUENCE>
              <XS:ELEMENT NAME="TCP_CONNECTION">
                <XS:COMPLEXTYPE>
                  <XS:SEQUENCE>
                    <XS:ELEMENT REF="SYN_SENT" MINOCCURS="0" MAXOCCURS="1"/>
                    <XS:ELEMENT REF="SYN_RECEIVED" MINOCCURS="0"
                      MAXOCCURS="1"/>
                    <XS:ELEMENT REF="ACK_RECEIVED" MINOCCURS="0"
                      MAXOCCURS="UNBOUNDED"/>
                    <XS:ELEMENT REF="ACK_SENT" MINOCCURS="0" MAXOCCURS=
                      "UNBOUNDED"/>

                  </XS:SEQUENCE>
                </XS:COMPLEXTYPE>
              </XS:ELEMENT>
            </XS:SEQUENCE>
          </XS:COMPLEXTYPE>
        </XS:ELEMENT>
      </XS:SEQUENCE>
    </XS:COMPLEXTYPE>
  </XS:ELEMENT>
</XS:SCHEMA>
```

FIG. 11

```
<?XML VERSION="1.0"?>
  <IP_HEADER>
    <TCP_HEADER>
      <TCP_CLOSE-CONNECTION
        <FIN_SENT>SEQUENCE#</FIN_SENT>
        <ACK_RECEIVED>ACK#</ACK_RECEIVED>
        <FIN_RECEIVED>SEQUENCE#</FIN_RECEIVED>
        <ACK_SENT>ACK#</ACK_SENT>
      </TCP_CLOSE-CONNECTION>
    </TCP_HEADER>
  </IP_HEADER>
```

FIG. 12

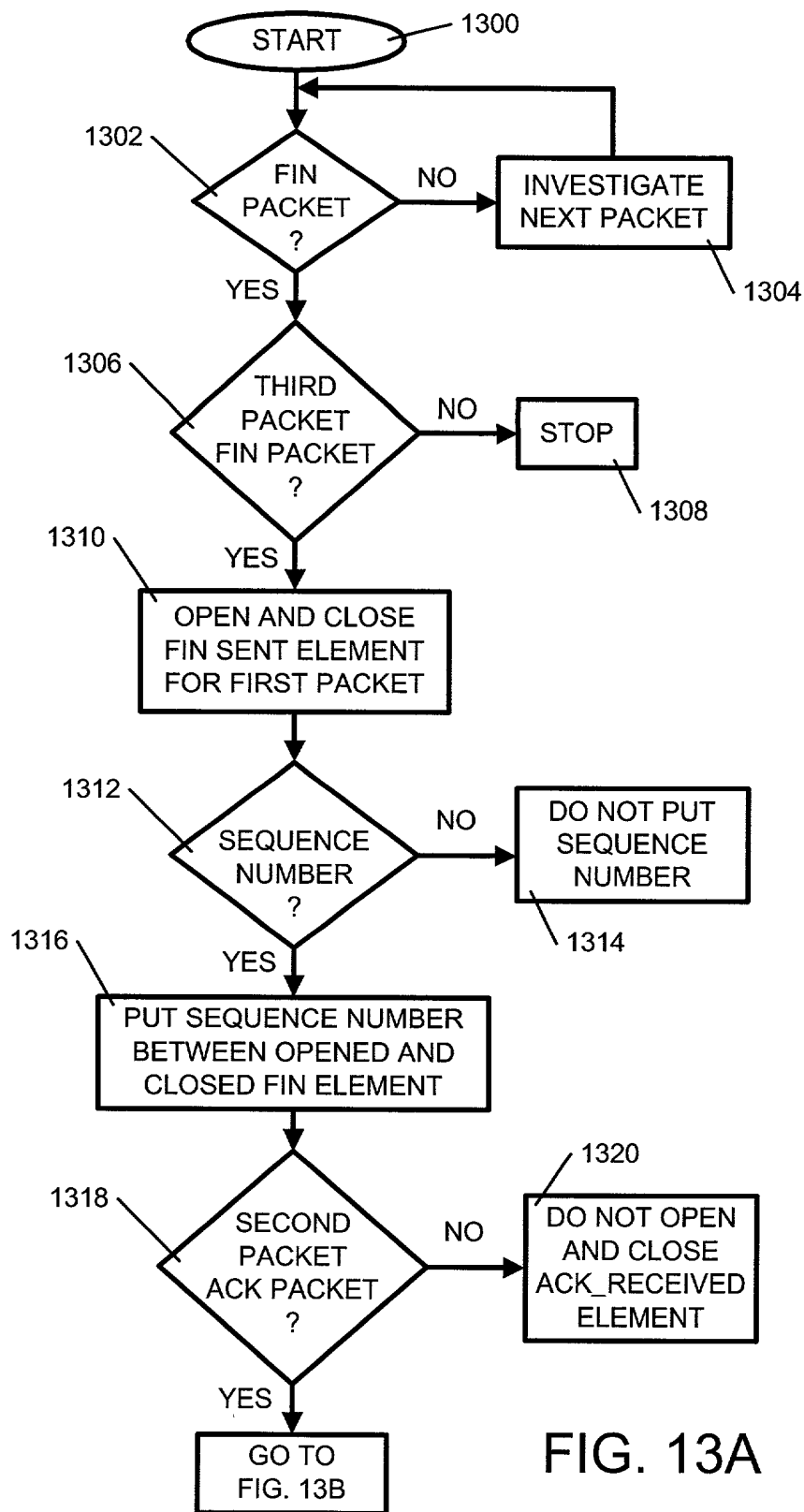


FIG. 13A

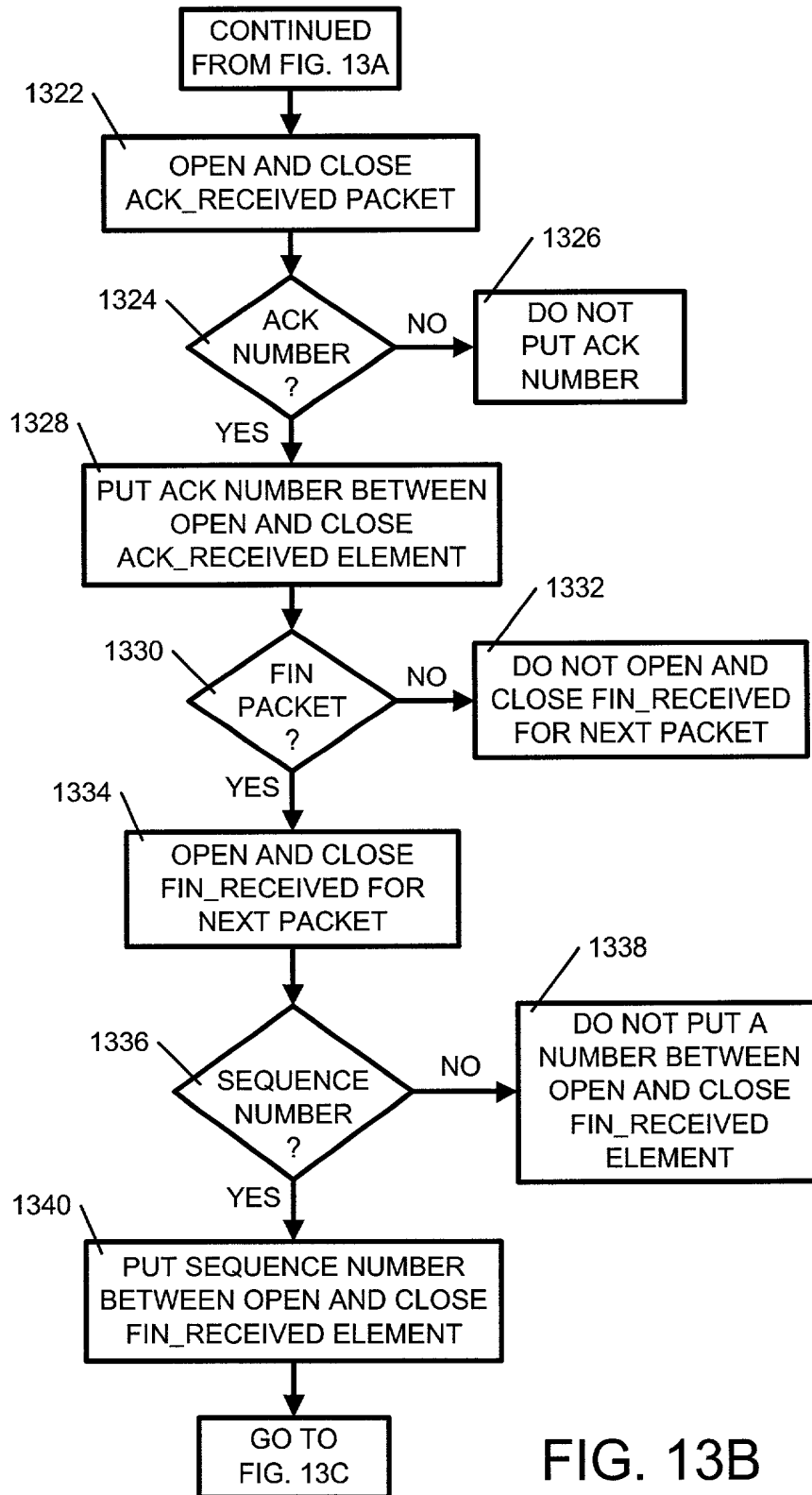


FIG. 13B

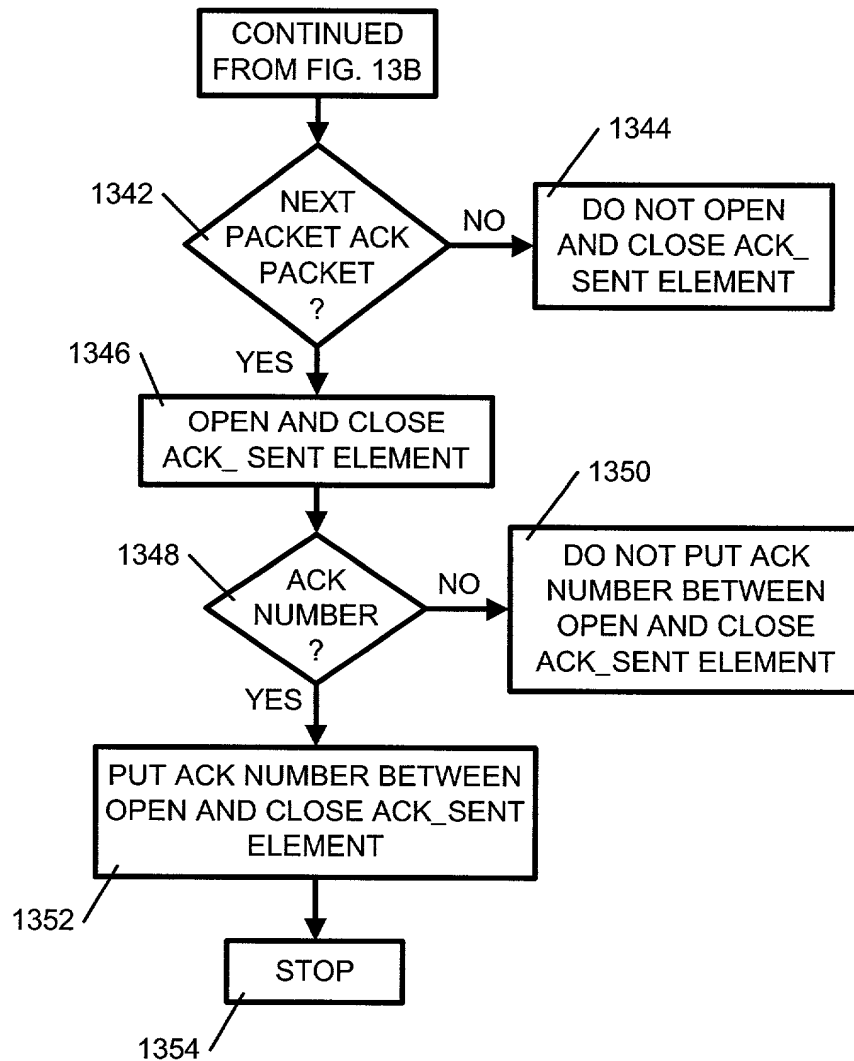


FIG. 13C

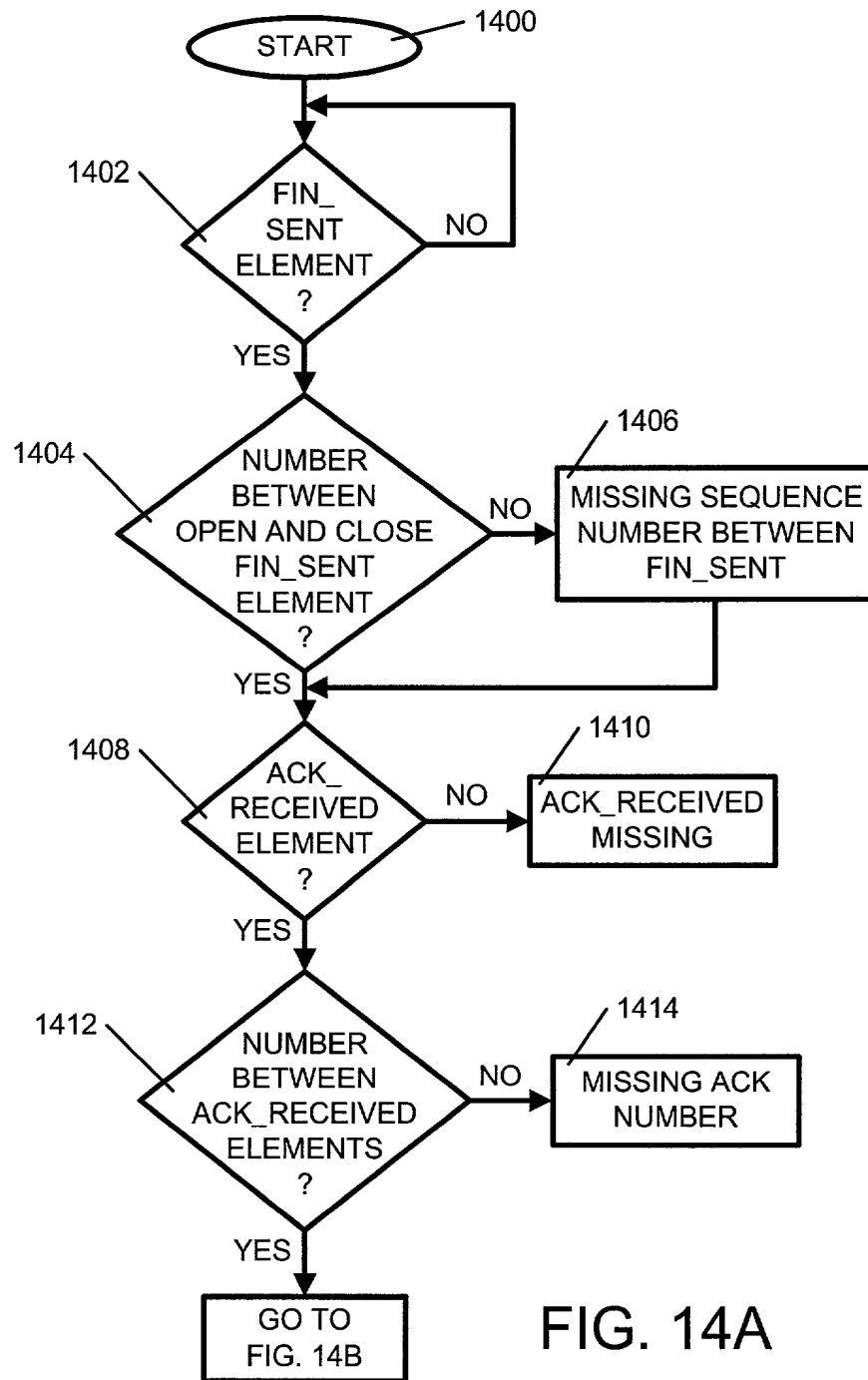
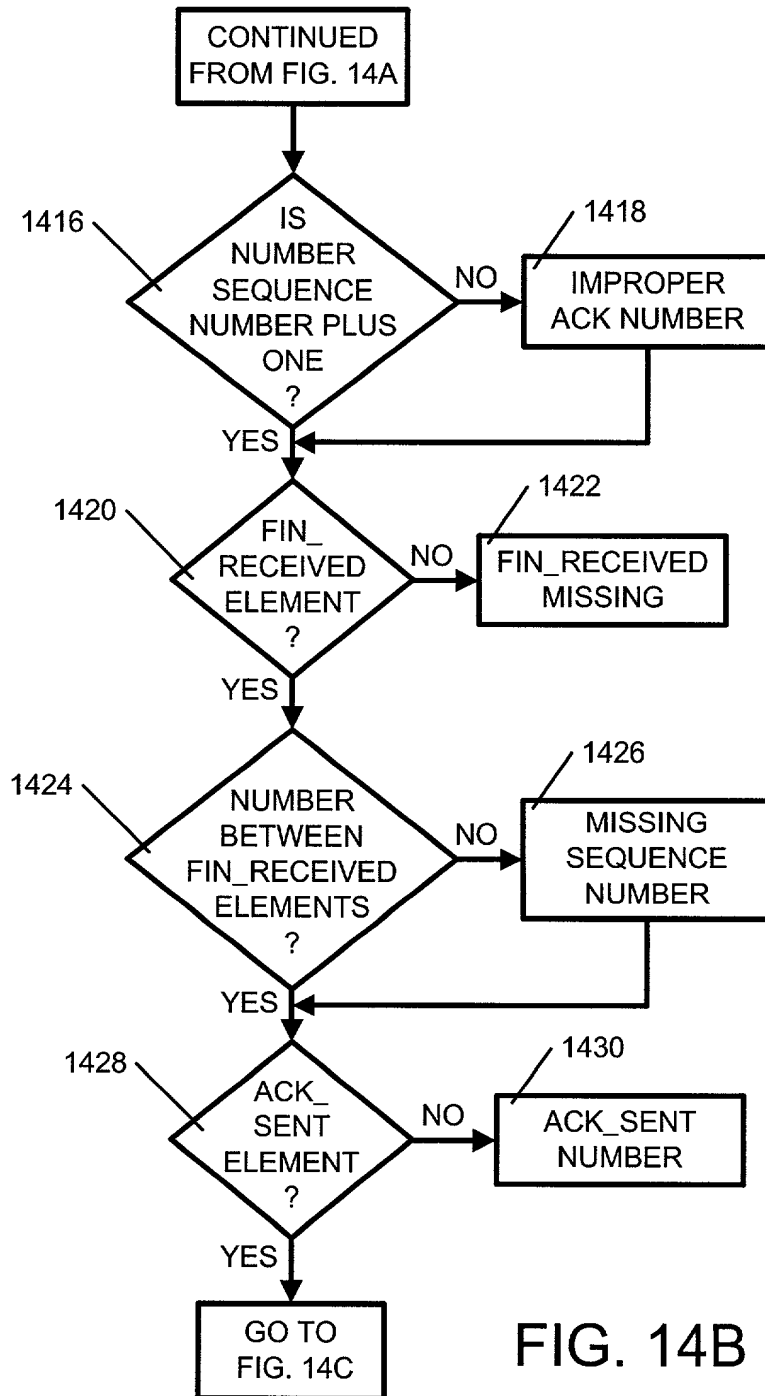


FIG. 14A



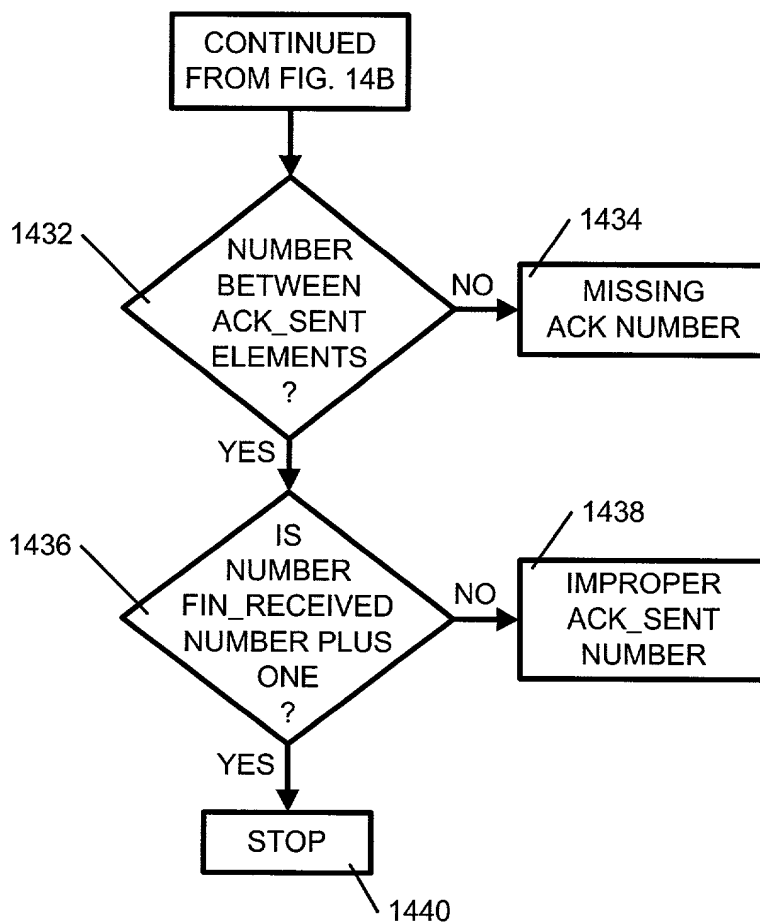


FIG. 14C

```
<?XML VERSION="1.0"?>
<XS:SCHEMA XMLNS:XS="HTTP://WWW.W3.ORG/2001/XMLSCHEMA"
  <XS:ELEMENT NAME="IP_HEADER">
    <XS:COMPLEXTYPE>
      <XS:SEQUENCE>
        <XS:ELEMENT NAME="TCP_HEADER">
          <XS:COMPLEXTYPE>
            <XS:SEQUENCE>
              <XS:ELEMENT NAME="TCP_CLOSE-CONNECTION">
                <XS:COMPLEXTYPE>
                  <XS:SEQUENCE>
                    <XS:ELEMENT REF="FIN_SENT" MINOCCURS="0"
                      MAXOCCURS="UNBOUNDED"/>
                    <XS:ELEMENT REF="ACK_RECEIVED" MINOCCURS="0"
                      MAXOCCURS="UNBOUNDED"/>
                    <XS:ELEMENT REF="FIN_RECEIVED" MINOCCURS="0"
                      MAXOCCURS="UNBOUNDED"/>
                    <XS:ELEMENT REF="ACK_SENT" MINOCCURS="0" MAXOCCURS="
                      UNBOUNDED"/>

                  </XS:SEQUENCE>
                </XS:COMPLEXTYPE>
              </XS:ELEMENT>
            </XS:SEQUENCE>
          </XS:COMPLEXTYPE>
        </XS:ELEMENT>
      </XS:SEQUENCE>
    </COMPLEXTYPE>
  </XS:ELEMENT>
</XS:SCHEMA>
```

FIG. 15

GIL.1023>DEVO.LOGIN:S 768512(0) WIN 4096 <MSS 1024>
DEVO.LOGIN>GIL.1023:S 947648:947648(0) ACK 768513 WIN 4096 <MSS 1024>
GIL.1023>DEVO.LOGIN: .ACK 1 WIN 4096

FIG. 16

<?XML VERSION="1.0"?>
<IP_HEADER>
 <TCP_HEADER APP="RLOGIN" SPORT="1023" SHOST="GIL" RPORT="LOGIN"
 RHOST="DEVO">
 <TCP_CONNECTION>
 <SYN_SENT WIN="4096" MSS="1024">768512:768512(0) </SYN_SENT>
 <SYN_RECEIVED WIN="4096" MSS="1024">947648:947648(0)
 </SYN_RECEIVED>
 <ACK_RECEIVED WIN="4096" MSS="1024">768513
 </ACK_RECEIVED>
 <ACK_SENT WIN="4096" RELATIVESEQ="YES">1
 </ACK_SENT>
 </TCP_CONNECTION>
 </TCP_HEADER>
</IP_HEADER>

FIG. 17

<CONNECTION_ESTABLISH>
 <PARAMETER_NEGOTIATION>
 <DATA_EXCHANGE>
 ...
 <WINDUP_OPERATIONS>
<CONNECTION_CLOSE>

FIG. 18

```
<?XML VERSION="1.0"?>
<IP_HEADER>
  <TCP_HEADER >
    <SYN_RECEIVED>SEQUENCE# </SYN_RECEIVED>
    <SYN_SENT>SEQUENCE#</SYN_SENT>
    <ACK_RECEIVED>ACK#</ACK_RECEIVED>
    <ACK__SENT>ACK#</ACK_SENT>
  </TCP_HEADER>
</IP_HEADER>
```

FIG. 19

```
<?XML VERSION="1.0"?>
<IP_HEADER>
  <TCP_HEADER >
    <SYN_RECEIVED>SEQUENCE# </SYN_RECEIVED>
    <ACK_RECEIVED>ACK#</ACK_RECEIVED>
    <ACK__SENT>ACK#</ACK_SENT>
  </TCP_HEADER>
</IP_HEADER>
```

FIG. 20